IUBMB Enzyme Nomenclature

EC 3.1.3.26

Common name: 4-phytase

Reaction: myo-inositol hexakisphosphate + $H_2O = 1D$ -myo-inositol 1,2,3,4,5-pentakisphosphate + phosphate

Other name(s): 6-phytase (name based on 1L-numbering system and not 1D-numbering); phytase; phytate 6-phosphatase

Systematic name: myo-inositol-hexakisphosphate 6-phosphohydrolase

Links to other databases: BRENDA, EXPASY, KEGG, ERGO, PDB, CAS registry number: 9001-89-2

References:

- 1. Johnson, L.F. and Tate, M.E. The structure of myo-inositol pentaphosphates. Ann. N.Y. Acad. Sci. 165 (1969) 526-532. [PMID: 4310376]
- 2. Tomlinson, R.V. and Ballou, C.E. Myoinositol polyphosphate intermediates in the dephosphorylation of phytic acid by phytase. Biochemistry 1 (1962) 166-171.
- 3. Lim, P.E. and Tate, M.E. The phytases. II. Properties of phytase fractions F₁ and F₂ from wheat bran and the myo-inositol phosphates produced by fraction F₂. Biochim. Biophys. Acta 302 (1973) 316-328. [PMID: 4349266]
- 4. Cosgrove, D.J. Inositol phosphates: their chemistry, biochemistry, and physiology., Elsevier, Amsterdam, 1980

[EC 3.1.3.26 created 1972, modified 1976, modified 2002]

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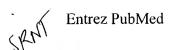
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